#### U. S. DEPARTMENT OF COMMERCE

LUTHER H. HODGES, Secretary
WEATHER BUREAU
F. W. REICHELDERFER, Chief

# STORM DATA

SEPTEMBER 1961 Volume 3 No. 9



SEPTEMBER 1961

										·									SEPTEMBER 196
			РАТН	ATH.		OF SONS		ATED†	CHARACTER				РАТН	ATH.		O. OF		AATED†	Guaran
PLACE	DATE	TIME	LENGTH OF (MILES)	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	OF STORM	PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	CHARACTER OF STORM
ALABAMA	1		1		Ī					CONNECTICUT	Î							Ì	
Alabama Port, Mobile		2:55	1	Narrow		0		0	Waterspout	Statewide	1	2:00p to 10:00p			0	1	5	4	Thunderstorms
County	sto	ore. Move	oved 1	hwester.	nom ba Lyaft	y da er m	oving	inland	ses and a		with	mmerous	strik	es espe	¢ia∐	Lirin	Hartf	drd and	e thunderstorms New Haven Counties
47.40%					<u>.</u> .				ļ		I Pow	er outsages	Occur-	red in 1	honta	noo fi	Farm	ibaton	ondon Counties. East Hartford, itain. Newington.
ALASKA			NOLE	naPOn	n I						Poquinju	onock, Po red youth	afret, in Wi	Putnam ndsor.	Wil Four	son teen	and Wi	ndsor. ble cat	itain, Newington, Lightning strike tle killed in
ART ZONA											sha	eret. Hea de tenting	in Po	n ann w quonock	3/2	incl	ned to	fell :	tobacco and n Windsor and
Phoemix, Scottsdale and Paradise Valley	8	1:30 p.	20		o	2	5	0	Severe thunderstore with possible	Goshen, Litchfield	3	ential ra	ins ca	1560 Wa	nout	3 1n 1	West	0	Lightning
	The	damage re	orts s	_ suggest	a pat	h fo	the	storm,	tornado beginning in tion across town	County	Lig	tning str	ike in	jured b	y ir				
	to S	cottsdale	and Pa	gradise	Valle	y. 1	Points	of hea	viest reported	Statewide		8p 20th to 11p	i		0	0	4	5	Hurricane Esther
ĺ	dama and	ge were () Broadway,	where	Avenue a witne	and S	outhe porte	d Sig	nue, iting a	2) 7th Street funnel cloud tom, several l, building un-		Hur	21st icane Est	her ga	ve 1½ -	3 in	ches	of rai	in to C	onnecticut except
	larg	e building	s dama	ged, (l	Car	elbad	k Hig	School	l, building un-		eas	but stre	am flo	oding w	us ab	Bent.	Top	vinds	onnecticut except hes in the South- of 35-50 mph with
	badl Tota	damaged, Ldamage	and (	6) Para 50,000,	dise near	Valle ly a	y, a 1 due	to win	number of homes mes damaged. id.		and abor	scattered t 75 mile	prope s sout	rty dam: neast o	ge. Sto	The	burrio on abo	ane re	e interruptions sched a point n September 21
ARKANSAS	}								]		abov	re it wea	kened and da	and move	d ea	etwar Tine	to us	ies av	eraged only 4 feet susceptible crops and espe-
Blanchard Springs,	12	1:55 p.	,	,	٥	0	4	0	Tornado		cial	ly by app	les an	corn.	y da	nage	Burrer	ed by	crops and espe-
Union County	The	storm mor	ed nor	the - t-			the t	70-05	rd Springs	DELAWARE			Non	e repo	rted				
	to	tunity, on the east o	the A	rkansas tion Ci	Loui	iane Unid	Line,	about	four miles	FIORIDA Daytona Beach	3	Unk.							Waterspout
	Ark	troyed and ensas. So the State	sever se dam	BLL DOUG	BB ark	n eth	lar bui	II di no d	demonant in	Volusia Co.	4	1:20 p.							Waterspout
CALIFORNIA	-									Monroe Co. Boca Raton									
	2-3					۰	5	4	Wind	Palm Beach Co.	*	8.m.							Waterspout
!	Staro	ng, gusty	nor the	rly win	às de	naged	crops			Ft. Lauderdale Broward Co.	6	8:00 s.							Runnel Cloud
!	sign	d utility boards, w damage t	recked	parked	airc	raft,	and o	aused		Miami Dade Co.	13	3:00 p.							Waterspout
COLORADO										New Smyrna Beach Volusia Co.	14	6:10 p.			!				Waterspout
Western Slope and Mountain areas	2-5				٥	0	5	5.	Snow	Vanderbilt Beach	15	4:22 p.			!				Waterspout
	the	afternoon	of the	2nd an	d ohe	bega	to sn	w dur	orm and rain in ng the night.	Collier Co.	15	12:45 p.			o	٥	3	١	Wind
	tion	s, in moun	tain a	reas an	d in	area	just	east	at lower eleva- of the mountains. ons to 4 to 5 in-	Martin Co.	1 1		rinda	struck	•		1		d hangar, demol-
	for	at lower	elevat Day we	ions. ek end	Many	peop) trapp	e who	went	to the mountains	)	ish Dame	ed one sma ge confin	ll sir	creft ar a small	area	maget •	2 ont	er aps	ll aircraft.
l i	the A	5th. Many	_mount	ain hig	hways	were	close	d at t	imes or were additions. There compers and fish-	Daytona Beach Volusia Co.	16	4:50 p.							Waterspout
	dame	n suffered ged power	frost	bite from unica	om of	ernig Linos	ht ex	osure sively	Heavy wet snow Hay, beans,	Key West	16	11:50 a.		}					Waterspout
	free	toes and o	ther d	rops we s that	re est foller	tensi wed t	vely i	amage orm in	by heavy snow or many areas. Kany	Monroe Co.	17	7:40 a.		}					Funnel Cloud
	tions	re and she s were str n the Slee	ep the ended py Cat	until r Mounts	escue in Rai	on a d. A	round orth	RIIGO 8000 s	at higher eleva- heep were strand- er until resourers	Monroe Co.				ļ					
	foot	ged to rea	ch the There	naon th was con	e 6th.	, aft	or bre	aking to m	through 4 and 5	Naples Collier Co.	17	Unik.							Waterspout
		eratures s							snow and low	Boca Raton Palm Beach Co.	27	9:13 a.		]					Punnel Cloud
Lake County									Funnel cloud g ground, on the	Key West Monroe Co.	27	Noon		j					Funnel Cloud
	The east	funnel rec	eded 1	nto a	loud	The	clou	WAS E	of Leadville. owing north-north	GEORGIA									-
Northern Mountains	20-2	4			٥	٥	4		Неву влож	Macon, 15 miles SE	1	6:14 р.		}					Funnel cloud
and northwest areas	oont	inuing for	sever	al days	, resi	ulted	in t	o hear	n mountain areas, iest September fell in the Yampa	Savannah, Chatham County	13	6:00 p.	1		0	٥	Į,	0	Tornado
	Valle and	ey. Clima Grand Lake	x repe	rted 30 Walden	inche	es out	snow ny ota	all, ser loc	teamboat Springs		the	ground in	only (	me area	whe:	re it	blew	the ro	parently reached of from a lumber sing the funnal
	ilar hish	or greate or ranges.	r tota Blee	ls. Up tric pe	to β	feet ines	of s	ow was	reported in the	HAWAII	clos	d.		~ AGLAT	-143	-5888	rebox	J-502 56	ernd rue Louwer
1	losse	as to live	atock	hav an	d unhe	arves	ted ex	ain.	farmers suffered Hail and rain that	Honolulu	26	1735-1752 1820-1829	р.		0	0	0_{		Water Spouts
	in we bean	estern Del crop in	ta Cou	nty.	he cor	ntinu Pre	ed wet	weath	vegetable crops or damaged the otals exceeded		Airpo		l out	ines wer	e p	onout	ced a	ıd sea	lulu International was splashing
1	pred:	ious recor	da for	Septen	ber 1	n man	y area	8.	ļ	ı	1					9			

See reference notes at end of table.

													_				_		SEPTEMBER 1961
			РАТН	Ę		OF SONS	ESTIM. DAM	ATED†					РАТН	Ĕ	NO. PERS		ESTIMA DAM		GUADAGTEO.
PLACE	DATE	TIME	LENGTH OF (MILES)	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	CHARACTER OF STORM	PLACE	DATE	TIME	LENGTH OF (MILES)	WIDTH OF PAT (YARDS)	KILLED	INJURED	PROPERTY	CROPS	CHARACTER OF STORM
IDAHO Jerome County, Paul area	Fror								Strong winds and rain the Snake River	ILLINOIS (Cont'd	30 Was 1		uch br		lth d	O amage	3 confi	0 ned la	Tornado rgely to trees,
Twin Falls County, Clover-Filer area	Basi natu	n of South re. A bu	hern I ilding	daho do: valued	ng c	onside ,000.	erable 00 was	damag demol	e of a minor ished at Paul, Wind	INDIANA Elwood	uti.	lity pole	and TV	antenn	0	0	. 0	0	Funnel cloud
Bingham County,	pole	s. Front	al wea	ther mo	ed f	гол м	est ac	ross s far n	damaged utility outhern Idaho ortheast as Shelley, Hail and lightning		Poli 6	ce observe 2 p. 4 p.	d the	cloud t	wo mil	les l	outhwe 1 0		Elwood. Lightning Funnel clouds (3)
Blackfoot area ILLINOIS		-	led b	y light:	ing.	Bri	-		of fields.	Batesville Delaware and Randolph Counties	24 Torn	4 to 6 p.	45	*3	o d at	1 Dale	5 ville,	5 passe Park	Tornado, hail i through Progress, er and Farmland to
	Dema visi	ge to two ble path t	t sout	numero	pus ou	0 rling tbuil	dings	and m	Tornado t part of city, de definitely		Unic In F a ci city	n City, l rogress a ty block, streets v as tossed	ear Da house Near ere si 25 fe	leville was "bl Cowan t rewn wi	afi own a hero th to hild	ve a- way" ofs ee l was	and a of two imbs and injure	ath wa garage barns nd a 4 d when	s cut through trees was scattered over were stripped, the )-foot house trail- a tree fell on a
	l8noo	night Il line st I lst and tate during	noved	eastwar	d acr	oss n	orther	out n this	Lightning, hail, and wind d mage with 2 barns and and one near tree northeast	IONA	car. 50% dama	In 50 se of the soy ge was est	etion: beans imate	of sou and ton at \$25	therr	Del.	aware 1 20 to	County 30%	hail destroyed of the corn. Crop
	of R at s area	ockford ar everal poi	pd nume	≠rous ot	ber e	trike	s with	less	r damage, Hail in and Eloumington	2 NW of Dumont  Moulton		6:00 p sses over nty. 6:00 p		25 000,000 30	. ,	7 loved	6 ENE 5	5 endi	Tornado g in NW Bremer Tornado
Chicago Chicago	12	afternoor			0	2	?	?	Funnel aloft Midway Airport  Lightning Leased after er under a tree.	Summer Calhoun & Webster Counties	ļ	7:25 p 7:00 p					5	4	Funnel Windstorm
Chicago	14 Wind	day	Copte	tail i	1 into t	l Vome	7	?	Wind Midway Airport	Rolfe	2 He	Night	and 1	ind of	1 SCu	red :	visio		Heavy rain and wind autoist who
	heav cent	flooding damage	orthea	perty an st. Str	nd cro	and i	speci.	elly i ts fl	Local Flooding Luence) caused northwest, west oded, bridge	Cresco 1 S Walnut	2	10:30 p 8:30 p ound cov	1	40	and	was	4	3	Tornado Nail
	22 Seve	4p rel femil: er of Mani t 1 mile v	2 les sav hattan	800 funnel and mor	O in wed di	0 H11 ( Precting by	4 ounty y eas t muc	Star t. Pa	Tornado and hail ted northeast th of damage was his was hail	Craig	10 Tw	6:00 p knocke	unc	onscio	us wi	2 hen	ight	ning	Lightning struck a nearby
Mokema.	23 0nl		short as sh	7 ort patl	0	0	O ops "	0 nappe		Dubuque 5 NNE Nevada	29	nor inju	dy.			1	4		Lightning Lightning
	Mari nort	ssa recrea	stiona that	l area point i	(bare) (bare)	les é	ast o	cabins Mari S. Ha	Tornado and hail and boats in ssa). Moved il, some golf ball later, did most	West Union	Se li	10:30 p veral pe ghtning	sons				doct		
Grafton	of c	5p ado sight	short ed 3 m	? iles wes	l stof	0 Graft	3 on.	4.	Tornado and hail drowned when Hail accompanying	Eastern Half of Kensas	Set the	state re	count	in mune ies and	rous in t	ligh he so	uing theas	strike 1. Bu	eastern part of e, eapecially in ildings were
Rffingham	etor 24 Char	lp	1/4 roar	50 reports	dame O at are	ge. O whil	3 e dam	0 age no	Tornedo t expensive		and nea	poles in F l poles, l ar Fredoni ore he was	ort Sc ines, a a ma telep	ott in e and fuse n was in honing e	erly s we jure bout	morn re da whe 8:30	ing, o Daged a ligh wa, an	te houst 32 taing dat 1	venworth 4:30am, se in Coffesville places in town, struck nearby 1:00am a farm th a loss of
East Central	day	ries of se	Extens	ive cro	p dam	ge ir	much	of no	Hail, wind and local flooding the three there two thirds least central,	Eastern Counties of Kansas	\$1; 13 Her	Midnight to 9:00a	and st	rong wi	ods a	ccomp	anyine	the p	Heavy rain and wind essage of
Jasper and Cumberland Counties	Hail floo 24 Gres	did greating were  2-3p test damage	test di also: 12 ge in :	snage (2 factors, 800-120 northers	DC Con	nties 0 er Co	) alt	hough 5 from 5	wind and local  Hail miles west of		Con a :	area eas inty and s fall of 4 ound. The land crops	t of a cuth o to 7 i high on th	line fi f the Ka nches of and perm s soggy	om Conses rai rai rai siste	Rive In t vi	uqua C The hour sis of by his	ounty e flas s dame 35 to hways	over much of to Shawnee h flooding from ged crops on low 50 mph flattened were covered by
Leland	to 1 place 30 Sigh	foot deep	p on to	narrow	to :	fee 0 and	t aga	inst b	heil accumulated uildings in some Tornado east destroying		et: eb: a: Po:	retches of sp their c sport dist	water ar was since n ten hi	and im swept : orth of	assa Tron Mayo	ble. the r rly.	A fam cad by A man	surfa was a	4 were drowned to floodwaters lso drowned near ary of the
Batavia	Some 30 Fire	livestoc	huildi k in b l <del>ž</del> iles e	ngs and milding narrow ast of 1	dama s kili O Batev	ing e led al 0	quipm dinj 4 maged	ent an ured. 3 some	d stored grain.  Tornado farm homes,	Thomas County		Probably tetween 10:00am- 11:00am		Intures	1 when		ek hv	ljoh+-	Electrical
Harvel	dest kill 30	royed or ed in bar 1:45p	damage ns. short	d sever	o fee	o but	lding 4	s with	Tornado		op	erating a	tracto	near	olby		Τ",	1-0.1	

		PATH	[ ⊭		OF SONS		ATED† IAGE					РАТН	E	NO. PER		ESTIM. DAM		
PLACE	DATE	LENGTH OF P	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	CHARACTER OF STORM	PLACE	DATE	TIME	LENGTH OF P (MILES)	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	CHARACTER OF STORM
KANSAS (Cont'd.)		1					i		MASSACHUSETTS (C	pnt'	d.)					i	 	<u> </u>
entral and North	29 4:00pm-	1	1					Wind, electrical,	1	east	, this ar	a was	spared	the	ruch	greate	r dama	ge that was earli
entral Counties	30:00mm	nd pro	perty de	ma.ze	resu	Lted f	rom th	hail and sleet		gale	speed du	ing m	ach of	the d	άγ, ς	eak ve	lociti	t gale or near es came generally
	Eail up to 1	2 incl	in si	ze fe	1 tw	ice at	Belle	understorms. Ville. Similar Well. Wind caused		of t	he storm.	Most	of the	ston	n dan	age wa	s of a	itigating aspect minor nature,
	window break	ge in	наув.	Ligh.	ining	destr	yed a	stack of baled storm hit the		cons	isting of	downe	d trees	and	broke	h limb	s tang	ling with power nderpasses. Many
	Lovewell Dam			0.00				1		com	unities 1	est po	ver and	phon	е вет	vices	for br	ief periods. antennae and
hawnee County	Aman was sti	uck ar	n kille	l by	an au	tomob:	le wh	Wind on a strong gust		brol	ken displa	wind	ibus. I	kinfa	01 v	delds (	f 5 to	more than 6 inch
	of wind blew the roadside	him ir of Hig	to the they 47	pe.th 70 ⊮es	of th	e car Topeka	as he	walked along		Bost	on to the	Khode	Island	line	. O	her so	ctions	southwest of of eastern Mass. S. Come Cod and
KENTUCKY		Į.	repo	1				1		the	off-shore	islan	ds repo	rted	yiel	s of	to 3	s. Cape Cod and inches. At was washed out,
MILLIOUS.		ļ	, -								ating tha						1011	was washed out,
LOUISIANA	No repor	t rec	eived	by I	rint	ing (	eadl:	ine.	Coastal (north of	25-	Daylong			0	0	6	0	Rain
MAINE Skoyhegan	4 About 5:1		Narrow		,	5		Tornado	Cape Cod)	26	25th to early a.	)		}				
AU PIECEM	ρ.π.	1	ĺ	ĺ	1 1	-		air grounds and		The	26th remains o	f Horr	icane E	sther	, 10	ded w	th rai	n but without
	carried it 10	yard	throu	gh th	air	. Roo	f cras	hed against 2		Com	leting a	Blow c	:Lockwi <i>s</i>	⊫e loo	D OA	r the	Morth	tucket after Atlantic. It the
	vicinity of g	andst	end wer	e upr	poted	. Dow	ned po	other. Trees in wer and phone lines		near	a northwa Brunawic	ta thr	yielde	e Gul	n of	to m	re the	ng that state m 3 inches of rai The near saturate
		ere da	naged b	fal	ing	trees.	Dame	ge was confined to		con	lition of	the so	xil, res	ultio	g fr	an effo	icts of	Estber's first
	a small area	in the	northw				i	1		ce1	ars were	floode	d as we	re me	by 1	W T08	s and	area. Countless underpasses. In
East Coast	15 Morning			°	1	4	0	Tornado, water- spout, wind	MICHIGAN	num	rous inst	апсев	traffic	Was	deto	red a	id dela	tyed.
	ares with win	ds up	‡o 70 m	gh or	high	er. I	he sto	lashed the Machias	Southern Lower	2	Early		1			4		Blectrical
								nel clouds were s observed on the			morning			1	1			
	east side of tornado which	the Be lifte	als Bri d a new	dge a	nd pr	esumab t. bos	ly mov	ed onshore as a and deposited it			tning in s with o							large farm
	15 ft. away. wind caused c	In ot onside	her par rable d	ts of	Mach to p	ias an Ower a	d suri	numication lines.					-	ļ	-			
	Roads were cl	ogged	with fe	lled	trees	and 1	imbs a	nd at least 2 . One man was	Traverse City	13	3:12 p.	15	(7)	0	0	4	c.	Tornado
	hit and injur	ed by	wind-	blown	plan	k.	]											observed 3 mil Witnesses
South-Central and Northeast	25- 26			0	0	5	0	Rain		repo	rted hea	ring	very :	loud	roa:	ing :	oise.	
	Hurricane Est	her's	energy Maine	vas 1	ngel near	y spen Bruns	t over	the North Atlantic Moving north-	-	tree	s includ	ing o	herry					d. Several
	northeastward	it c	ossed Attenda	that at wi	state nda W	, exit	ing th	rough northeastern moderate velocity		nous	es were	damag	ea.		ļ	ļ		
	but rainfall	yields	of 2 t	ф вог	e thaj	p 4 in	thes (	opera 20 to 50 j	Lower Peninsula	13-1	4 7p., 13th		l			5	c•	Heavy rains an
	resulted in w	despr	ead loc	1 f1	oodin	g of c	ellars	state. This , low roads, and ere reported and			7a. 14th							high winds
	traffic was d					,					ssive ra							with amounts
MARYLAND .								1		endi	ng at 7	A.M.	Floor	ing	cau	ed he	avy d	our period amage to high-
Charles County, 2 mile west of Waldorf	s 3 afternoon	2-3	3	0	٥	. ?	h	Hailstorm										dam at Travers rom Cheboygan
	rains caused	Deavy	damage	to to	haced	crons	west	and torrential of U.S. Highway 301										n amounts.
	between Waldo	of and	Mattum	man.	On	one fa	rn 15	acres of tobacco	Grand Haven	14	6:00 p.			1				High winds
	damaged.																	ed off pier
MASSACHUSETTS Franklin, Hampshire,	4 Mid-			0	0	4	0	Electrical, wind		Into	Lake Mi	chiga	n by	O to	12	foot	waves	·
Hampden Counties	afternoon Widespread th	unders	orms c	ncen	rate	d over	West	rn portions of	Marne	22	5:20 p.	15	1-15		1	4	1	Тогладо
	these countie starting fire	s. A sin s	number ome. D	of bu	ildin was	gs wer	e str inor :	ck by lightning, ature in most		L	<u>.</u>		ì	!	Ì	1		
	instances. W	Lad fe	lled tr	ees d	pwned	power	and y	hone lines in some		repo	rted the	y obs	erved	flyi	ng d	ebris	from	le and several the tornado
Southeastern and	15 Early		l	o	0	5	4	Wind										to 5 or 6 mile general locati
coestal areas	morning This was a sm	   11 bu	viole	nt tr	ppica	l stor	n. So	utheastern sections		of t	he area	is 12	mile	noı	thw	st to	12 m	iles north of ere completely
	took the brun	t of i	t. Win	ıds gu	sting	up to	hurr	cane force caused r and phone lines,		dest	royed.	Sever	al bu	<b>lldir</b>	gs a	nd a	barn	were also
	broken displa At Westport.	y wind the ro	of of a	ened smal	IV an	tennae plane	and o	kmaged small craft.		ĺ	ged. Yo	-	JOY WA	in	are	by :	TATU	glass.
	a gust of win Attleboro, ra	d. Ma dio st	ny road ation W	ARA W	e clo es ko	gged w	ith fa off th	llen limbs. In me air for 2 hours.	Ottawa and Kent Counties	22	4:00 p. 7:00 p.					4	6	Thunderstorms
	Apple orchard were about 2	and weeks	egetab short o	le fa	mati	ere hi urity.	t by t	he storm. Apples corn lsy prostrate		1				1	}	1		with hail, hig winds and heav
	in many field	in t	he stor	n's w	ake.													rains and deav
Eastern and South- eastern Sections	21 Morning t	†		0	0	5	5	Hurricane Esther										ch diameter
	Storm stalled	and i	ntensit heast o	wea Blo	kened	swift land	ty who	n center was about Storm then moved		acco	mpanied	pà Ju	igh wi	ds I	elt	d and	cut	orchard fruit f the fruit
	slowly eastwa	d and	southe	astwa	rd so	uth of	Nanti	cket following a		crop	s. High	wind	s also	dar	age	bu1	ding	, homes and
	the original	ene a	short d	stan	ce 80	utheas	t of l	antucket on the		re11	ed trees		}	1				
	velocity alon	д ехро	sed are	B of	the	onfer ruci	Cape a	to mear hurricane and off-shore	Petoskey	22	Evening	{		1		4	}	Heavy rains
	areas took th	them r	eported nishing	brun	nighe of	st gus the st	orna.	nd off-shore D mph. These Elsewhere along n 50 and 65 mph.			ding cau	sed h	eavy o	amaç	e to	high	ways	streets and
	Uther parts o	t the	arrecte	# are	а ехр	erlenc	ga spe	special of 40 to 50	1	pase	ments.	1						
	moh J As a re	sult o	f the s	torn'	s sud	kien we	akeniz	ag and turn to the	1				-					

			РАТН	т	NO.	OF SONS	EST IM						РАТН	I	NO. PER		ESTIM. DAM		
PLACE			OF P.A	PATI	-	JUN3		AGE	CHARACTER OF	PLACE			P (8)	PATI DS)					CHARACTER OF
·	DATE	TIME	LENGTH OF (MILES)	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	STORM	PLACE	DATE	TIME	LENGTH (MILE	WIDTH OF PATH (YARDS)	XILLED	INJURED	PROPERTY	CROPS	STORM
MICHIGAN (Cont'	.)	i								MON TANA					: ;	;		!	
Southern Lower	24	3:00 p. 6:00 P.				1	5	c•	Thunderstorms with high winds, heavy rains and	Wolf Point, Roosevelt	7	ր։րջ հա	50	*1	0	0	5	0	Wind, Hail and Rain
		٨							lightning		The	e storm ex	tended f Pool	from t	wo mi	les w	est of was at	Wolf	Point to 10 Point from hail.
									troyed lumber 67 MPH damaged	·	The	re was so	me win	d damag	e in	area.	Hai]	stones	up to one inch harvested, no
	a ha Metr	nger, 3 opolitan	aircr Airp	aft an	d nu Nume	mero rous	us ca TV a	rs at	Detroit as were blown			age.				į			
	lown	plus bu	ildin	gdama	ged	caus	ed by	flyi	ng debris was s with amounts	Great Falls, Cascade County	12	12։կ5 թա							Funnel Cloud
	up t	3 inch	es re	ported	cau	sed	serio	us f	One person in			fummel c							her Bureau
	the	Detroit	area	was hu	rt b	y fl	ying	glass	ce to hundreds	NyBraska		por o ouza		10 010			<u></u>	Ī	į ·
	of h	omes in						, ,		Southeastern Nebraska	2	5:30 p	7	?	1	0	4	o	Wind, lightning
Benton Harbor		1:55 P.							Punnel aloft	,	Des	9:00 p.		rara al	ctra	nol s	torms	local	heavy rains and
		l Air Pa hwest of					l alc	ft 13	miles south		Son Pay	e hail st	ruck s	cattere	dare	as of	south Wind	ern la	heavy rains, and measter, Gage, own trees, small
Southern Lower		2:00 p.					4	5	Thunderstorms		bu:	ldings, p ling an o	ower 1 ccupan	lnes, e	c., itain	and r g did	olled consi	derab	own trees, small house trailer e damage to power cattle. Wind
		9:00 p.						ļ	with heavy rains high winds and		liı dar	es, house age 75%,	virin Lightn	g, etc. ing 25%	and	kille	d 11 b	ead of	cattle. Wind
									lightning	NEVADA 15 miles west of	14	6:40 PM							Hail
		ral ligh barns w							rious damage to winds felled	Wendover, Utah	Half	inch to c	ne inc	h hail	repor	ted 1	y air	raft.	Hail reached
	nume	rous tre	es, a	nd TV	ante	nnas	with	res	ltant damage to flooded	To Warm and	Ī	d in unir	habite	d areas		_			
	road	s, stree	ts ar	d base	ment	s wa	s rep	orte	. High winds	Las Vegas and Charleston		8:00 PM		L., ,_,		31	6	1	Wind and hail
	hume	rous sma	ll bo	ats.	Powe	r se	rvice	to :	and damaged numerous homes		Vega.	Strip az	d West	Charle nocked	eston out	areas v hai	Tra	Sever ilers	damage to Las wrecked; signs 4 inches which
	roma	he area to crop	was o damag	ed by	heav	ue t y ra	o sev in.	ered	power lines.		last age	ed three m power line	inutes s. On	. One	man e usly	le otr in jur	ocuted ed by	falli	llen high wolt-
Southern and	30	-				İ	4	c°	Thunderstorms		Same	reports o	ffunn	ols. D	ama ge	d est	imate	over	\$2,000,000.
Central Lower		8:00 p.							with high winds, heavy rains and	Near Reno	1	1:50 P.M.	ì						Funnel cloud
									lightning	NEW HAMPSHIRE	ruma	l cloud n	l	repo		•			
	to h	omes, bu	ildir	gs and	car	8.	Numer	ous j	sultant damage power lines were	NEW JERSEY	21	Most of		-		3	6	c	Hurricane ESTHER
	serv	ice to h	undre	ds of	home	в.	Seve	nds :	which disrupted ightning induced	Mainly coastal locations	ļ	day			]				)
MINNESOTA	fire	s damage	d hon	es and	bui	ldir	gs.						acco	erty lo	pre	límin	ary re	port o	¥Ē
Baudette, Lake of the Woods County	1	5:15 p.	16	25 .	0	1	4	0	Tornado		Bur	icane EST	l	onal Bo	i	1	l	1	ers. Shore locations,
	Torn dama	ado funne ge in Gra	firs	t sight Trave	ed no Ling	rthwe east	st of south	Grace ast i	ton caused minor t touched down in damaged, trees and		WIE	ked boats	down	<b>ė</b> d tree	s and	powe	r line	e <b>s.</b> Or	ly slight crop ream flooding.
	TV a	ntennas d	med	and doc	ked b	roofe pats	d, gar smashe	ages d. O	damaged, trees and ne man was injured	NEW MEXICO			l	repor	1		Ì		
Thief River Falls,	wher 24	blown fr 9:00 p.	mat	ractor.	0	0	. 0		,,,,,	NEW YORK		1							
Pennington County	ĺ		e inch	in dia				3 in Thi	Hail of River Falls	East-central counties	2	evening			0	0	5		Thunderstorms, his
WIGGIGGIANA	area	with uno	fficia	l winds	esti	nated	50 mg	hat:	local airport.		Alba	ny area, i	materd	am, Joh	postor	n ar	a - s	overe	wind, heavy rain thunderstorms with
MISSISSIPPI MISSOURI		No repor	t rec	eivea	Dy p	rint	rug (	eadi	ine.		down	trees re	ulted	in grea	test	dama	e to	cars,	lightning, Blown buildings and power
HIDOUGH											the	s in Alber Pulton Com 150,000.	nty co	, Ligh	of I	esse	lsvil	re des le at	troyed saw mill in an estimated loss
West Central Plains, Northwest Prairie,	1-15						6	5	Heavy rains	Cattaraugus County		morning			1	0	5		Thunderstorms,
Northeast Prairie		_					_			,	1	_	storms	with t		ļ	1	resul	torrential rain
		The remna Missouri (from 3:0	dump:	ng heav	y rai	ns o	ver a	Large	area,		Home	s were dan	raged,	campera	180	ated	road	s wash	lightning strikes d out, bridges
i			he Le	s Summi	it and	Ple	asant	Hill a	rea, and		Exte	nsive dame	ge in	the con	omi 1	y of	Littl	d Vall	ruck by lightning. by. 3.61 inches
-		Missouri central l	river	and mos	t tr	buta	ries i	n west	ern and	,	a.n.		rning.	One	oman.	was :	wept	dway a	11 between 4 and 9 ad drowned in Great
		areas ea	t of 1	(ansas	ity.				Funnel Aloft	Putnam-Rockland coun- ties southeastward	21	oy oreer :	and an	a deut	0	D 10	•6	C	Hurricane Esther
Caledonia	24,	7:55 PM		ı	1 1	1	l			through Long Island	In t	he countie	s nort	h of Ne	You	k Ci	y the	e wer	winds of 40 mph t, heavy drop of
Washington County De Soto	24 24	7:55 PM 9:30 PM					}		Funnel Aloft						1400	were	knaar		
Washington County  De Soto Jefferson County	24	9:30 PM									frui	t with sor	er and	s lostr	ng 509 nicati	or i	ore, cilit	ides ies an	to 5 feet, inter-
Washington County De Soto				_					Thunderstorm		frui rupt mari to 1	with some ion of power ne proper ate vegeta	e area er and ies (p	s lostr commun rincips and corr	g 50% dicati ally p blow	or i on fi leas n do	ore, cilit re bo n. 0	ides les an ats), ver-al	to 5 feet, inter- t heavy damage to some crop damage I damages in the
Washington County  De Soto Jefferson County  Vichy	24	9:30 PM	to 2 :	nches i	to ati	anete	<b>r.</b>				frui rupt mari to 1 area of s	t with some ion of powers ne proper ate vegeta under one evere dame	e area er and des (p bles a milli go was	s losin commun rincipe and corr on doll easter	ng 509 nicati ally p blow lars, no Nas	or r on for least on do on i	ore, scilit ire bo in. O ong I ind Su	ides ies an ats), ver-al sland ffolk	to 5 feet, inter- heavy damage to some crop damage I damages in the the principal area counties where
Washington County  De Soto Jefferson County  Vichy	24	9:30 PM 3:32 PM	to 2:	nches i	Ln di	amete					frui rupt mari to 1 area of a dama (up	t with some ion of powers ate vegets under one evere damage was due to 108 mpt	e area des (p bles a milli ge was to hi	s losin communicipe and corr on doll easter gh tide e easte	ng 509 micati milly p m blow mars, m Nas ms (3 mr ti	or i leas n do On i sau t to 5	ore, sciliture bo on. O ong I and Su feet Long	ides ies an sts), ver-al sland folk sbove lsland	to 5 feet, inter- heavy damage to some crop damage damages in the the principal area counties where normal), high winds and pounding wave
Washington County  De Soto Jefferson County  Vichy Maries County  Caledonia	24 24	9:30 FM 3:32 FM Hail, up	to 2 :	nches i	Ln at.	amete	r. 4		Thunderstorm		frui rupt mari to 1 area of s dame (up of u	with some of power of the proper of the prop	me area wer and ides (p ables a milli age was to hi on th light (p	s losing communication doll easter gh tide easter gp to 35 gp, pour	ng 507 micati mily p n blow lars, m Na: es (3 ern ti 5 feet oding	or fileasin don fileasin don its sau to 5 p of pof of pi	ore, ciliture bo on. O long I and Su feet Long lamage leasur	ides ies an sts), ver-al sland folk sbove Island in th s boat	to 5 feet, inter- d heavy damage to some crop damage I damages in the the principal area counties where normal), high winds

		PATH	Ξ		OF SONS	ESTIM. DAM						PATH	Œ		OF SONS	ESTIM.		
PLACE	DATE T:ME	LENGTH OF P.	WIDTH OF PAT	KILLED	INJURED	PROPERTY	CROPS	CHARACTER OF STORM	PLACE	DATE	TIME	LENGTH OF P (MILES)	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	CHARACTER OF STORM
NEW YORK (Cont'd.)		Ī							OKLAHOMA (Cont'd	)				İ	[			
	Long Island,	nearly	one-thi	Lindiof	which	h was	crop a	ee million on nd land damage.	Watongs, Blaine County	23	8:15 p.	10-15	*1 to	0	0	4	4	Esil
	Rainfall in t County area t	be area	ranged 2 inch	i from	arou extr	nd one eme lo	inch were	in the Dutchess d of Hudson Valley;		One-	inch dien	ter b	ail cov	ered	groun	d with	winds	to 50 mph.
	2 inches over Island area s	weste	n Long	Island 7	nd, u	to 5	inche the s	s over south-central outheast portion of	Enid, Garfield County	23	11:45 p.	3	*1/2	0	0	3	3	Hail
	Long Island,	No de	eths we	de-di:	rect1;	CAUB	od by	he hurricane, how- le repairing lines	}	1	to two-in		ļ		beavy			nds up to 50 suph.
	at New Rochel conditions.	le. M	eny inj	ries	indi	ectly	resul	ted from storm	Oklahoma City, Oklahoma County	27	4-5 a.	8-10	*1	0	°	4	2	Wind
NORTH CAROLINA				1						witi	heavy ra	in cau	sed min	or da	bage,	some	due to	uses to 90 mph local flooding,
Halifax County	2 5:15 p	-	Ì	0	3	0	a	Electrical			inker Air homa City		Base a	ad 03	lahou	a Stat	e Fair	Grounds in
	Three women	skandi	ng near	barn	struc	k by 1	ightn	ng and injured.	Guthrie,	27	5 a.	5-10	*1	0	0	2	1	Hail
Hertford, Perquimans	3 765					,		**************************************	Logan County	Hai:	ranging	from 1	/2 to 1	inc	bes i	n diam	eter,	accompanied by
Counties	3 Late aft	n				4	0	Electrical, Wind, Hail	8	1	y rain an Midnight		1	50 B	oph, d	enaged 2	roofs	, windows.
	Widespresd t	hunder	scorm ac	ivit	у сач	sed mi	nor d	mage to trees,	Springer, Carter County	}	]		to 1	1 -	1	1	ì	-inch hail caused
T D	power lines		ors over	a co	ms1ae	rable				8005	roof, wi	dow,	and sut	omobi	le di	mage.	One s	arage destroyed
New Hamover County	4 9-10 p					"	٥	Electrical, Wind, Hail	OREGON	by 1	trong win		repor	i				
	Evening thun	derstor	cause	d sev	eral	instan	ces o	minor damage in	PENNSYLVANIA						}			
	Wilmington A reported in	irport	Hails	cones	of g	olf ba	ll si	reported at e unofficially	Siglerville	1	Night					4		Thunderstorn
Tanauluania Countu	1 1	]	one non	e sev	Erery	L A	Ì	Electrical		1		cows	were el	ectro	cuted	by bo	lt of	lightning.
ransylvanis County	5 afternoo		1124 00	ļ	Ĺ.,			ed when lightning	Southeastern	2	Afternoon					5		Thunderstorms
	struck in a	Stonb o	ot over	fifty	catt	le in	su obe	n field.	Counties		& Evening							
oastal area	20			0	0	5	0	Hurricane		Lig	htning froughout ti	m num	rous t	hunde h win	rator	es fir	ed a n	unber of building or of trees in
	Hurricane Es	ther pa	sed by	at s	ome d	istanc	e off	hore, causing minor damage.			ks County							
	Highest wind per hour at	s repor	ted in	North	Caro	y scat lina,	gusts	to 58 miles	Southern Counties	3	Afternoo	1		1	6	5		Thunderstorms
urry County	25 Night	uaga me	280.				0	Wind		Lig	htning as in Carro	ociat 1. in	d with	seve Ban	e th	unders Earris	torns	struck and milled nd two boys near
urry county	1 1 "					Ļ.,.	1	1		Pho	enixville	Thr	e othe	T8 100	re in	fored	at Gle	naide when strong ing. Several lar
	Garage blown	Sever	i iiuuar	-	J., 0	Dane ua	maged,	by sudden gust.		bez	ns vere f	red b	light	ing.				
HCETH DAKOTA		_				٠.		 	Near Pineville	3	2:50 P.M.	4	10		}	4		Tornado
Rugby	8 1:004	9		0	0.	4	0	Hailstorn			eral build the strong			cofe	d and	a far	n seach	ine shed was demo
7 Miles Nw Carson	9 4:00PM Lightning st a field.	ruck a	inju	0 red to	2 ones	0 worki	o ng in	Lightning	Central Counties	7	Morning			1	1	3		Thunderstorms
OEIO	l Tiom.	}								Two	boys were	stre	k by 1	ghta	ng,	one fa	ally,	while picking
La Grange	6 5 PM			0	0	4	3	Thunderstorm				Hew'y	lle.	Light	ing	1	a bern	near Clearfield.
	Heavy thunder	E COTTE	ctivit	dar	ng t	ne per	lod 5-	8 PM EST resulted	Western 3rd of the State	25	7:00 to 8:00 P.M.				i	5		Thunderstorms
	ing corn, uti	lity l	ines, a	dda:	tew b	ouses.	. Stro	y to trees, stand- ngest winds were										th the storms,
	ed a "baby to	"obanro	inves	tigat	on f	ailed	o sub	stantiate it. No		11	args feed	store	and sp	rts	thop .	in Gre	mabur	and utility wires were demolished
	damage to hou	es wa						n. Structural Indows and stripp-	[ .	Was	also blow	n down	by the	str	ong w	inda v	th da	ted bowling center mage estimated at
Mc Connelsville	ing of shing	1		١.	Few	۰,	c		PUERTO RICO	<b>3</b> 25U	,000. Seri	eral :	erns w	re D	rnea	ON 11	Surenzu	<b>3•</b>
we conneigning		1		1	1			Thunderstorm	Моса	30	Afternoon			1	2			Trunderstorm
	afternoon tra	weling	in a ne	orthe	ster	ly dir	ction	nnelsville this leaving a trail ged buildings.		a c	ffee shed	, was	killed	inst	ntly	unen s	truck	ing refuge under by a bolt of
	Structural de	mage w	s conf:	ined t	minl	to r	ofs,	windows, TV	]	lig	ntning. sived mino	ier fa	ther or	d and	ther	per sor	. lyir	g beside her.
•	Injuries vere	CRUSE	by fl	ing (	depri	aued 1	es CO	mpletely demolished.	RHODE ISLAND		i.	-				]		
	Less severe t	hunder	storms t	ere	scatt	ered w	ldely	over southeastern south and Marietta	Statewide		2:00p to 6:00p			2	2	5	0	Lightning
	areas as a so		ne nov	ed acı	068	be ar	A.	And BOW MARIETTE	[	maj	r effect	in Ken	t and E	rista	L Cor	nties	amiso:	hunderstorms with thern Providence
OKLAHOMA yril, Caddo County	3 About 5p			0	0	2	0	Wind		and the	northern se section	Washin s caus	gton Co ing pow	untie er fa	s. /	t leas	t 30 1 1,000	olts hit marks in homes in Coventry
	Straight wine	1	1	0 to						Sci	uate, War	wick a	idence, nd West	Exet Warn	er, l	Two p	ingsto ersons	n, Providence, killed and two
elma, Stephens County	3 About 7p Streight wine			0 0 to	0 75 ագր	2 h.	0	Wind			red in Ex	eter.						
mnewood,	3 About 8p	1	1/4 to	i '	0	2	0	Wind, funnel sloft	Statewide		3:00a to 6:00a			0	0	5	, ls	Wind and Tide
srvin County	Streight wine	60 m	1/2 ph vith	funn	el al	oft.				sma.	l craft,	s wel	lasa	rew 1	arger	ferri	es and	mped hundreds of barges, from
Risknoti,	23 6 p.	8-10	<b>{</b>	o	0	3	3	Hail		Wind	s reached	70 mp	hingu	sts a	t Poi	nt Jud	ith ar	Bay. Some sunk. d 53 mph at
oger Mills County	One to two-is	ch dia	2 meter h	111 c	overe	d grou	od wit	h winds around	1	occi	irred duri	m ast	ronomic	bl lo	w tid	le. Po	wer to	en though storm 29,000 homes was
	40 արհ.									West	erly and	1200 p	hones w	ere d	ut ir	south	ern se	Warren and ctions Some
inton, ster County	23 7 p.	3	50	0	0	4	4	Tornado		1		Lt cro	ps as f		rth a	}		occurred.
•	Tornado norti	of Cl	inton m 75 mph	oved and a	catte	ard as	sociat s-inch	ed with band of in diameter hail.	Statewide		8p 20th to 4a			0	0	5	5	Hurricane Esther
1						- 7		' [			22nd							

SEPTEMBER 1961

	Ī.		РАТН	E		. OF		ATED† AGE					РАТН	Ŧ	NO. PER		ESTIM.	ATED¹ AGE	
Diver			F S	WIDTH OF PATH (YARDS)	$\Box$				CHARACTER	DI ACE			F (5)	WIDTH OF PATH (YARDS)					CHARACTER
PLACE	l	l	토를	P. S.	ا	8	ERT		OF STORM	PLACE			돌	18.4	ا ا	æ	ERT.		OF Storm
	DATE	- AME	LENGTH OF (MILES)	Ē	KILLED	NUREC	PROPERTY	CROPS			DATE	TIME	LENGTH OF 1	ΕÇ	KILLED	INJURED	PROPERTY	CROPS	
	1	F		₹	¥	<u> </u>		0			<u> </u>	F	]	``		Z	¥	Ü	
RHODE ISLAND (Co	n+ '.	1		•	•			i		TEXAS (Cont'd.)	l		Ι					1	! 1
MANUEL ADMINISTRAÇÃO	Est	her reache	da po	int abo	ut 35	mile	s sout	h-sout	heast of Block	111111111111111111111111111111111111111	to a	vicions	torned	that	- manut	١		L	island during
,	Isl	and near n	oon Se	otember vard.	21 t	efore	it su falls	ddenly	weakened and inches occurred	1									
	but	only mino	r flas	h flood	ing v	as re	cordec	espec	ially in the		and	eron dana	en in	UL PECT.	y ar.	ecte	d by t	de hur	ricans. Property
	Paw   to	tuxet Rive ₿3 mph at	r Vall Block	by. To Island	p win	ds re n the	corded mainl	were	74 mph with gusts sts reached only				G V ALC UZ	remort or	- BO	SCIE	ated 2	50,000	persons from
	65	ph. Neve	rthele	ss shor	t pos	er ar	d phor	e serv	ice interruptions		ᅖᇸ	Le and up	per fe	CAS COA	stal .	bitie	s kept	loss	of life remark-
	whi	ch ranged	rom b	to 6 f	eet a	bove	normal	, was	n and tides, of short duration		Pri	lay, Septe	mber 8	th. Th	*ey	o of	the h	urrica	Taxas coast on me, approximately
	and	confined	nostly	to sma	ller	craft	. Net	erthel	ess sand erosion ed out. Greatest		30 I	dles in d M. of the	iamete	The L	d int	o the zede	Port	D'Conn be eve	or area about reached Port
	dam	age at Mis	quamic	ut and	Bakor	net F	oint.	Crop	losses were		Lav	ca at 3:4	5 P.H.	Carla	MOVE	dalo	uly, s	nd was	reached Fort almost Texas coast.
	cor		the m	ain sma	II su	ffere	d prir	cipall	y by apples and		Pro	Port Lav	eca, t	be stor	a fol	Lowed	a nor	threst	erly course that
SOUTH CAROLINA	1										def	ied the c	was a	over In	et.	pakus +he	, and	Waelds	r. No well-
Charleston, Charles- ton County		1:00 p.m.	Ree ho	- 10m	0	1	g sin m	0	High winds in pattern		Was	der area	about	L A.M.	on th	121	h, and	it be	out of the gan to weaken ear Austin,
con county		lar to wat			100	r. '	erru Ro	cuare	In baccein										
Eastern and Central	5	3:00 pm-			0	0	4	0	High winds and		int	Oklahoma	about	9 P.M.	on t	he 12	th, vi	th som	e rainfall
South Carolina		5:00 pm					,		excessive light-		Sep	ember 11t	. H	heat w	nds	and t	ides w	ere at	e reinfell a was felt on Fort Levaca.
	Cons	iderable a	cenna)	ation o	r mir	or wi	nd and	light	ning. ning damage associ-		Peal	gusta we	re est	mated .	at 17 Pages	Amed	. Pes	k gust Rdos	s of 150 mph
	ated	with the	passin	gofa	aqua]	111	e in t	he are	a.		and	Victoria;	and 1	O mph	gusts	were	obser	ved at	Matagorda.
Swansea, Lexington	5	Night			0	2	0	0	Lightning.		16,6	feet MSZ	at Ma	agorda	, ц.	(85 fee	t MSL	on wor	Port Lavaca.  S of 150 mph  Port iransas,  Matagorda.  Port Lavaca,  ar Houston ship
County																			
SOUTH DAKOTA McPherson and Brown	7	8:25 pm	Short	Narrow			4		Tornado		dro	ped to 27	62 in	hes at	3:45	P.M.	on th	์ บัน	barometer , and remained more than 16
County	ļ	-	l	1	1					1	I THE	B2 IATT T	рала	TON CO	AL VAL	DOLL	LITOR	LIGUV 83	TOD TO BAY CITY.
	mile	s east and	farm 2 mi	near Me	ther thof	leol	rown C a. McP	punty nerson	line, or about 10 County. Except										
	for	home all i	erm b	dilding	wer	des	troyed	inclu	ing two chicken										hes accompanied irregular
	Was	pushed abo	ut a :	foot on	found	datio	and i	had wi	ndows broken.		pati	ern. In	coast	l, raini with :	all	gradu	ally d	ocreas Torn	ed northward, s, east of the st Gulf drainage
	bran	wer cracke	κα, and	a part	or:	TOOF !	ripped	l lar	n truck and n up to 2.5 inches		sto	m center,	recei	ing as	much	as l	inche	s. No	st Gulf drainage
	and	some hail	in bo	th coun	ies	ecom	panied	storm	but damage minor.		rror	erty Loas	18 68	Detemb	lat 2	2D ml	llion	inollar	ded flood stage.
Bullhead, Corson	9	Afternoon			1	1		1	Electrical		dan	estimated se to mb	at an	ther 1	and	lion	dolla	rs wit	n most of this r damage to corn, in the
County	Your	g girl ki	led by	11ghta	ing .	vhile	valki	ne on	highway. Small		peca	ns and ci	rus.	Livest	ck l	8888	Mere	beavy	in the
	bro	her accom	enyin	her w	s al	ight1	r inju	red.			COLI	gorda are ties betw	en Cor	pos Chr	go wa. Pisti	and	Licted Port A	to th	e coastal
Webster, Day County	10	1-2 a.m.	ĺ				5		Electrical	,	OOU:	ties of J	ckson,	Harris	, and	Wha	ton.	Damag	b coastal  plus inland  was classified  alveston Counties:
1	Lar	e farm im	lemen	store	dest	roved	bv li	entain	g-caused fire.										n, Victoria,
	Mam	rifmolement	in the		. +17	A +	hìre n	h	as merchandise, n fire. Heavy		rela	son, Wher tively mi	ton, a	d Harri	la Cou  inlad	ntie d fr	b. St boathe	onast	tage was Percentagevise.
	rai	helpful:	n red	ering a	gs su pread	of t	o cama ne fir	ge Iro	n lire. Heavy		the	greatest	estru	rtdon oc	curr	d at	Palac	os an	Percentagewise, i Port O'Connor. i and Texas City
TENNESSEE											suii	ered the	righes	dollar	los	es p	cause	of th	size of these
Millington, Shelby	6.	Afternoon			0	1			Lightning		olti viti	es. Much out wave	of the	storn Torn	dene	e wa	s the	result ng Car	of flooding
County		year old ring her h		as knoo	iked (	incon	clous	by li	htning while		At 3	:15 A.M. (	n the	12th, a	tors	ado	at a	path a	la numbered 8. ross Galveston lead, 55 injured,
		<u> </u>									and	penally q	magin	about	200	oild oild	ings o	whic	h 60 to 75 ware at 6:00 A.M.,
Madison, Davidson	12	4:00 p.		ļ	0	1	4		Wind and rain		dest	royed. A	escond	torned	o cui	BOT	eral c	iala Emerc	nd at 6:00 A.M., Lal buildings,
County		winds, ac Adison.	compan	ned by	rain	ble	down	an un	inished church		hert.	tensing a	i koomo	into-1	ee.	Tn C	hannal	Hau I	name Horselan -
TEXAS	ĺ	ĺ		1	(						dest	roved 18 i	ning. at	nd 6 ed	off.	n th	11th	inju	red 22 persons,
O'Brian	3	5:00 p.	3	,			-				hone 11th	s, for a l	loss of	(\$200,0 of Jack	100.	A to	nado	at 1:2	P.M. on the
Haskell County	2 tc	roadoes to	nehed	oromod.	in +1	ادم حا	5 Krien	0	Tornadoes ity, demolishing		1 ho	ne and da	aged	others	for	a lo	ss of	25,00	). A tornado
	5 00	tton wareh	OUE65	and hea	wily	dame	dng a	veral	homes.		City	ned groun: , wreckin:	a at 11 2 rad	:47 A.) Lo tore	rs a	the da	ilth, maoine	Sever	D. A tornado ss ENE of Bay al buildings. A
Ton Green County	3-	6:00 p-	60	*30	0	0	h	0	Rain		torn	ado at 7:	O A.M.	on the	121	, st	nok t	e Har	in Commity in
	C014	8:00 a	lted i	n the	eath	of 3	30 fr	shlv	thorn sheep and		88Re	day desta	oyed (	eneral	build	ings	at Fu	lbrigh	in Community in
	goat	s valued a	t \$35,	000.						1	ICOUR	CVI. (m.)	une la	n. at	irir I	P. M	is tow	hada =	Letex (Panola garages for a
Lake McQueensy	4	2:57 p	1	1	0	0	3	0	Tornado	1	\$500	loss.	- ^					[	Describate Trit, g
Guadaloupe County	DOL	COL JERSON	about	عللم لا	ion ti	ie zro	und.	The to	en traveled	Hockley	IJ	7:15 a-	2	7	0	0	4	0	Wind
	2 ha	barns at	out 1	uilo. ap	art,	and (	ore de	wn 3	tility poles.	Harris County	An	7:30 a	-				· ·		
Houston	h	<b>4150</b> р			0_	3	0	0	Lightning		turn	ed an 11,0	00 в.	trails	r, ar	d de	olish	d 2 o	nildings, over- w sheds.
Harris County	teres	in which	jured, they w	2 seri	ously vine	, wh	n ligi	tning	struck a large	Hardin County	13	10:00 a						l	Funnel aloft
Have County	Li.	12:30 р				]					Ohse	red 25-30	MV of	Вежими	nt As	rpor	<b>.</b>		
		rved betwe	en Bud	a and E	γle.				Furnel aloft	Near Rio Grande City	IJ	2:30 p-			a	0	7	0	Wind, funnel
5 E Eingsville	5	10:50 a							Funnel aloft	Starr County	A fu	3:00 p melaleft	was o	bsezved	betz	ean 1	COMMA A		aloft
Kleberg County	_	]		]					- entrol #101£		Staro	hø thunder	etora	winds d	lamo i f	-had	one In	41450	and bloss the
6 E Berlingen AFS	5	10:58 a							Funnel aloft		fell	within h	minut	es.	<b>569 1</b>	==0 ed	ties.	3,50	inches of rain
Cameron County	1									Freepart	IJ	5:25 p							Funnel aloft
Kl. Paso	8	3:02 p-	5	+1/2	0	0	b.	0	Wind, rein	Brazoria County				· '					
El Pago County	Thu	8:38 p	rind*	estim+		75	nh		L	Barstor Wood Compte	19	5:00 p	?	?	0	٥	?		Tornado
	1.62	erenda in a	NO.W	u daman	. i	жу	rain a	ccostba enred	nying the storm	Ward County	and	n abando	ed ser	vice st	ntior	. A	11 werr	on ti	maged 4 barns s south side
	Cau	ed \$5000	-	<b>†</b>				"			of T	. S. High spanied ti	eary 80	in Bars	tor.	Hea	y rai	and	ome hail
Southeentral and Southeast	8- 114	1			34,	1465	8	8	Hurricane Carla,	W		-			ا . ا	_			
<del></del>	Thi	burrican	W8.6	ne of	he m	st v	iolent	storm	8 tornedoes s in Texas	Yoakun County	19	7:00 p- 6:00 p		*3	0	0	3	4	He1l
I	) bis	ory. In	eras,	34 per	ons	died;	8 of	these	can be attributed	l	Ha11		inches	in die	<b>m</b> ter	atz	pped	ezves	off grain
See reference no																			

See reference notes at end of table

																			SEPTEMBER 196
			PATH	Ē		OF SONS		ATED!					PATH	HT.		OF SONS		ATED†	
PLACE	DATE	TIME	LENGTH OF (MILES)	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	CHARACTER OF STORM	PLACE	DATE	TIME	LENGTH OF (MILES)	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	CHARACTER OF STORM
TEXAS (Cont'd.)	dame	aged autoin	<b>obile</b> a	in the	rest	cent	al se	etion	ton plants, and of the county. Dwellings	WEST VIRGINIA South of Clarksburg, Harrison County	3				1				Lightning
Near Swenson	whic	a moved f	roa SE	. Very toward ?	MW.	le ra Hadla	dn ac tones	evera avera	ed the storm ged 1 inch in Hail	WISCONSIN West Central	2- 3	Late evening and					4	4	Tornadoe s
Stonewall County	Mart mile Hail	6:00 p Die-size is Now of Swi Istrips w	all dan enson; are abo	aged co 3 miles ut 2 mi	otton SE o	up to f Swe ide,	90% mson; and h	in thr and W	es areas; 1 s of Hamilin. ses covered es were 12		doi:	early morning amily of n briefly nwood at	small betwee	ornado on Glen	s cr ood nd;	ossed and A touch	over thens,	the se Touc	ction touching had down near h of Ferwood Thorp at 12:15 along 3½, on the 3rd.
E of Hamlin	incl 2h	es in dia	eter.	ļ							ear a.i	ly on the	3rd; 3rd, a	couched cout 14 down n	down feet	5 mi wide	les we and s	st of kipped	Thorp at 12:15 along 3½ on the 3rd.
Jones County	Bail	night accompan hail defo	ied by listed	*1/2 heavy r the cot	O rains tton,	0 damag lesvi	ng on: O	tton f	Hail rom 10 to 60%. larger bolls.	North	Dan 3	age to fa	n bui	ldings	und c	cops.	5		Lightning
15 E Corpus Christi Nueces County	28	6:15 a						-	Waterspout	NOT-WI	Asl	morning					and b		at 4:53 a.m.
UTAH Northwest Utah Valleys	1		Aftern	non and	4	?	4	3	Wind and dust	Whitewater 1 S	22	ldings str Near noon	ruck ai 5	nd burne Narro	d in	nort 1	h. 5	4	Tornado
	sto:	ege to pow on along H c, and was	er lind Highway Major	s, bil 40 eas factor	board of in the	is an Tendo Pres-	da fe ver re car ac	w buil duced cident	lings. Severe dust visibility to near resulting in four les damaged.	Campbellsport	22 To:	age on at 1:30 P.M. ched down theast.	4-5	300			3	4	Tornado th. Moved
Emery, Kane and Iron Counties	8-9	Various			0	0	3	3	Thunderstorms and hail	Sheboygan 1 W	1	1:50 P.M.							Funnel
	fel.	extensiv in 24-ho	e dama. ur peri	o in G	eavy	iver	where rator	over mafte	derable flooding. two inches of rain rnoon of September rop and glass dam-	Milwaukee 6 S E	22 1/ 29-	2:05 P.M 2" to 3/4"	diame	ter.		1	i		Hail Wind, rain,
Virgin River, Zion	age .				6	-					30 Sqt	all line o	T08380	l over s	ecti	n wi	th dam	nging	lightning sinds, heavy lightning.
Nat'l Park, Glen Can- yon	Heav floo	y thunder	id erabl	e dama <i>t</i>	er Vir	Grope	liv	estock	Thunderstorms ulted in flash ught with five and highways.	WYCMING Powell	1 Stro	Daytime	winds	reachin	0 g pea	0 k gu	0 st spec	5 d of	Strong winds swonty-seven ly windrowed dry
Salt Lake City and Delta	18	10:45 AM			0	0	0	0	Funnel clouds	Bear River Divide	bean 2	? eepherder	and hi	s horse	1 Were	0	2 ed by	0 lightr	Lightning
VERMONT	east	of Delta	Neit	her app	eared	to r	City :	and an the gr	other 10 miles	Casper		Evening until			0	0	4	0	Heavy wet snow
U. S. VIRGIN ISLANDS				repor		İ				Casper	23	morning Evening			0	0	4	0	Heavy wet snow
VIRGINIA Eastern Fairfex County	3 Ligh	4:15 P	ed a r	umber d	0 f f1	o es,	•l <sub>4</sub> nclud:	١.	Lightning, hail and heavy rain. garage fire which fell in Alexandria	° Includes crop C Crop damage. * Wiles instead ** Yards instead	of	yards. miles.							
Henrico, Roanoka, Giles and Augusta	and dama	Annandale,	Abou	t ten t	aseme irst	nts þ	ere f	Looded S of a	and major flood parochial school. Lightning, hail and rain.	† Storm damages 1 Less than 2 \$50 to \$50 3 \$500 to \$5 4 \$5,000 to 5 \$50,000 to	\$50 0 ,000 \$50,	000	in cat	tegori	ės va	ary1:	ng fr	om 1	to 9 as follows:
	of n home bases fata	orthwest is s in Roam ments in b lity resul	ichmon ka and aynesb	d. Lig Waynes oro and	htmin boro dama	g cau Hea ged p	sed da vy rai earby	mage ns fl corn	unty in a suburb to a number of coded several crops. One accident in	6 \$500,000 t 7 \$5,000,000 8 \$50,000,00 9 \$500,000,0	o \$5 to 0 to	,000,000 \$50,000,0 \$500,000	000	000.					
Princess Anne and	Coun	rain. "Ve ty. Morning	nen a ry lar	car ski ge* had		repo	night rted :		le slippery by thern Augusta Tropical storm.	Note: This publi due to the diffic it is not all-inc ried in the June	ulti lusi	es inhere ve, Del:	ent in	i colle lata a	ectio	on of	thie tions	s type s will	of data,
Hampton Countles	The Norf The and in t	eye of Hur olk, end d "fastest w at Norfolk he Hamptor e mean low	amage 11e* v 32 mi Roads water	to east ind at les per area w	passe ern Vi Cape I hour as 2.1	ed nei irgin ienry The	arly in was was great about ab	00 mi there just 30 test of re nort	es east of fore minor. Smiles per hour eperture of tides mal, or 4.7 feet Except for	SUBSCRIPTION PRIC domestic, \$2.00 f able to the Super ence regarding su Documents, Govern	E: orei inte bscr	15 cents gn. Chec ndent of iptions i	per c ks ar Docum should	opy; ; id mone ients.	year ey on Ren	ly su rdere mitta to "!	bscr: s show nce s Super:	iption ald be and co intend	e made pay- orrespond- lent of
	and effe life to e for	no deaths ct was dis due to t mergency s the storm	pere a ruption he remaind helter were to	ttribut n of th	ed to e cost betwe	Esth stal	er in erea! 0.000	Virgin econe	ge was reported eastal section, iia. The greatest mic and social 5,000 residents ary of the	· · · · · · · · · · · · · · · · · · ·				USCO	MM-W	B-As	hevil	le -	10/27/61 - 1150
WASHINGTON	Virg 28 Stre	inia coast ng wind w l sirplen	est of	the Ca	cades	resu	h lted nd ot	k in sûn her pr	Wind and dust storm or damage to a operty. East of										
	Cry Visi	section of hility was localities roads we	the reduced to the re	olumbi ed to mercus ed. S	Bast sero f ecci.i	n res or se ents pers	ulted veral occur ons r	in a hours red on sceive	60 MPH over the severe dust storm. by blowing dust in the highway and i minor injuries in se and apples were										